

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>S3539</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/SE 2004/000492</b>	International filing date ( <i>day/month/year</i> ) <b>31 March 2004</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>8 April 2003</b>
Applicant <b>Alfa Laval Corporate AB et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2.  Certain claims were found unsearchable (see Box No. II)

3.  Unity of invention is lacking (see Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000492

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: B04B 9/04, B04B 9/12**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: B04B**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**EPO-INTERNAL, WPI, PAJ**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3747998 A (GERALD KLEIN ET AL), 24 July 1973 (24.07.1973), column 1, line 4 - line 8; column 2, line 18 - column 3, line 60, figures 1,2, abstract  --	1-16
A	GB 2037939 A (BECKMANN INSTRUMENTS GMBH), 16 July 1980 (16.07.1980), abstract  --	1-16
A	SE 507107 C2 (KYFFHÄUSER MASCHINENFABRIK ARTERN GMBH), 30 March 1998 (30.03.1998), abstract  --	1-16

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

17 June 2004

Date of mailing of the international search report

28-06-2004

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000492

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SE 512770 C2 (ALFA LAVAL AB), 8 May 2000 (08.05.2000), abstract -- -----	1-16

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

30/04/2004

International application No.

PCT/SE 2004/000492

US	3747998	A	24/07/1973	BE	778715	A	16/05/1972
				CH	538060	A	15/06/1973
				DE	2108590	A	07/09/1972
				ES	400026	A	16/12/1974
				FR	2127543	A	13/10/1972
				GB	1381528	A	22/01/1975
				IT	947770	B	30/05/1973
<hr/>				<hr/>			
GB	2037939	A	16/07/1980	DE	2854566	A	19/06/1980
				JP	55082817	A	21/06/1980
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SE	507107	C2	30/03/1998	CN	1098336	A	08/02/1995
				CN	1112973	B	02/07/2003
				DE	4314440	C	16/06/1994
				DK	45794	A	04/11/1994
				GB	2277700	A,B	09/11/1994
				GB	9408612	D	00/00/0000
				IT	1278316	B	17/11/1997
				IT	BZ940027	A	03/11/1994
				SE	9401443	A	04/11/1994
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SE	512770	C2	08/05/2000	AU	6530298	A	12/10/1998
				CA	2283775	A	24/09/1998
				CN	1087978	B	24/07/2002
				CN	1291117	T	11/04/2001
				EP	0970518	A	12/01/2000
				EP	1064098	A	03/01/2001
				JP	2002503550	T	05/02/2002
				JP	2002512736	T	23/04/2002
				SE	9800489	A	20/08/1999
				US	6428460	B	06/08/2002
				WO	9942221	A	26/08/1999
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